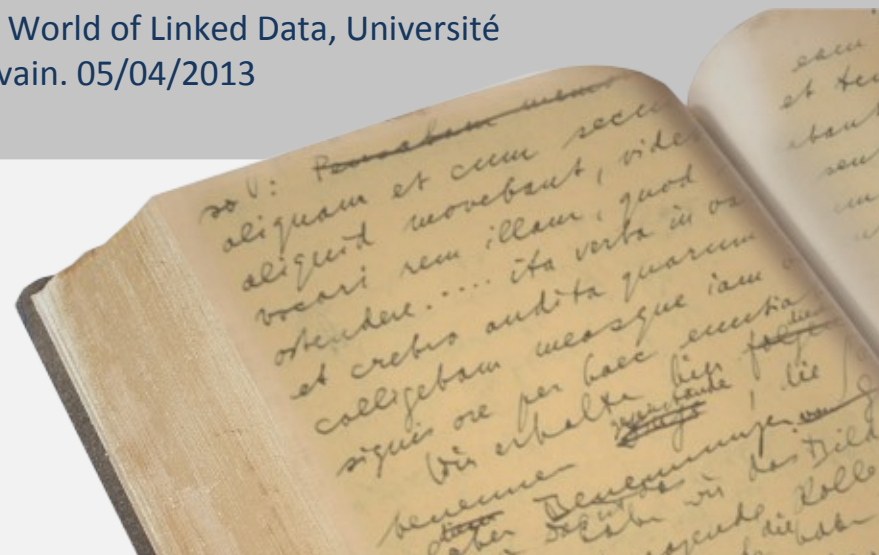


DM2E and Beyond: Linked Data Research Infrastructure and Scholarly Domain Modeling

Prof. Dr. Stefan Gradmann (KU Leuven)

Medieval Texts and Manuscripts in the World of Linked Data, Université
Catholique de Louvain. 05/04/2013



Overview

Will cover:

- **An Introduction to DM2E**
- **The Scholarly Domain Model**
- **What next?**
- **Pundit (Demo?)**

Will not cover:

- **Intro to RDF/S**
- **Intro to Europeana and the EDM**



02/2012-01/2015

Co-funded by the EC

Digitised Manuscripts to Europeana (DM2E): Who (1)?

- **Content Providers**

- European Association for Jewish Culture (Judaica)
- Max-Planck-Institut für Wissenschaftsgeschichte (ECHO)
- Österreichische Nationalbibliothek (Google)
- Staatsbibliothek zu Berlin (Kalliope)
- University of Bergen (Wittgenstein)
- CNRS ITEM (Nietzsche)
- National Library of Israel (Judaica)
- Berlin Brandenburgische Akademie (German Text Archive)
- Humboldt-Universität zu Berlin (Polytechnisches Journal)

- **Technology Providers**

- ExLibris (Aleph, MARC sources management)
- Universität Mannheim / Freie Universität Berlin (LoD2, D2R, SILK)
- Max-Planck-Institut für Wissenschaftsgeschichte (ECHO)
- Net7 S.r.l. (Muruca/Pundit)
- National Technical University of Athens (MINT)

Digitised Manuscripts to Europeana (DM2E): Who (2)?

- **Digital Humanities Community**
 - Dr. Tobias Blanke (King's College, London)
 - Sally Chambers (The European Library / DARIAH-D)
 - Prof. Dr. Stefan Gradmann (HUB)
 - Prof. Dr. Gerhard Lauer (Göttingen University)
 - Dr. Alois Pichler (UIB)
 - Dr. Jürgen Renn (MPIWG)
 - Dr. Laurent Romary (HUB)
 - Prof. Dr. Susan Schreibman (Trinity College Dublin)
 - Dr. Claire Warwick (University College, London)
- **Community Building**
 - Open Knowledge Foundation (OKFN)
- **Coordination, Management & Information Science**
 - Humboldt-Universität zu Berlin (HUB)
- **TEL / Europeana Foundation** (Europeana Research)

Digitised Manuscripts to Europeana (DM2E): Who (3)?

- **New Associated Partners**
 - Universitätsbibliothek Frankfurt a.M. (UBFFM)
 - Bulgarian Academie of Sciences (BAS)
 - Ontotext
 - Brandeis University
 - Georg Eckert Institute for International Textbook Research (GEI)
 - Joint Distribution Committee (JDC)

Digitised Manuscripts to Europeana (DM2E): What?

- Provide substantial amounts of **digital content** to Europeana with a focus on **digitised manuscripts** (WP1)
- Integrate existing **technical building blocks**
 - from Europeana development
 - as well as from generic LoD oriented development
 - into a **generic production chain** for migrating data from various sources to the EDM as well
 - as for the **contextualisation** of the object representations (WP2).
- Explore usage scenarios of EDM metadata together with object data in a specialised RDF graph based platform for **humanities research** making available specialised visualisation and reasoning environments (WP3).

WP3: Digital Humanities Requirements and Related Engineering - Context

Goal: lower the barriers for **digital content curation** by providing an integrated, flexible, semantic based environment targeted to **digital humanities scholars**

Structured or semi-structured data sources

Compliant web pages with metadata

Europeana (EDM)

Partners/third party platforms

Linked Open Data Cloud

Web of Data

Digital re-mix and curation tool for humanities scholars and domain experts

Text collation

Data Linking

Multimedia (semantic) annotation

Text mining

(personal) digital curation workflows

Mix, recombine digital content and metadata

Augment knowledge based on Linked Data

- Custom virtual collections
- Curated, domain specific mashups
- Scientific contributions
- etc..

Scholarly Communities

Linked, semantically structured content further enriching the data web

Expected WP3 Results

- Prototype **platform enabling digital scholarship** in combining EDM RDF metadata, digital surrogates and Linked Data ...
- ... building on an **ontological representation of scholarly work** based on a common understanding of its constituents
- ... resulting in a increasingly complex **social semantic scholarly graph** containing RDF statements such as
 - Version_A – isSuccessorOf – Version_B
 - Statement_1 – contradicts – Statement_2
 - Scribe_Y – copiedFrom – Scribe_Z
- ... and which could **feed back richly contextualised EDM** to Europeana!

An example: De arte venandi cum avibus

De Arte Venandi ... (1)

Frederick II, Holy Roman Emperor: De arte venandi cum avibus. Moamin. Gerardus Falconarius. Ghatrif. Grisofus medicus



Shelfmark	Valencia Universitat de València, Biblioteca Històrica BH Ms. 601
Author	Frederick II, Holy Roman Emperor, 1194-1250 Gerardus, Falconarius Ghatrif Grisofus, Medicus
Date of Origin	around 1470
Place of Origin	Italy
Material	parchment
Extent	304 f.
Dimensions	329 x 211 mm
Illuminated	yes
Language	Latin

De Arte Venandi ... (2)

Bildschirmfoto Ablage Bearbeiten Foto Fenster Hilfe 96 % Di. 10:25 gradmans

Europeana Profes x VIVO | connect - x edoc - Dokument x COST/SISMEL Trai x Europeana Regia x 25 Google Kalender x Protokoll Besprecl x crossref.org : : pu x

www.europeana-regia.eu/en/manuscripts/authors/frederick-ii-holy-roman-emperor-1194-1250

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Frederick II, Holy Roman Emperor, 1194-1250

View International Authority File ID Number: 66596013
URL: <http://viaf.org/viaf/66596013/>

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De Arte Venandi ... (3)

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viaf.org/viaf/66596013/

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VIAF

Virtual International Authority File

Suchen

Feld auswählen: Index auswählen: Suchbegriffe:

Gesamter VIAF

Suchen

Frederick II, Holy Roman Emperor, 1194-1250

Frédéric II empereur germanique 1194-1250

1250-1194 فردريك الثاني، الإمبراطور الروماني المقدس،

Frederick II, Holy Roman Emperor Roman emperor, 1194-1250

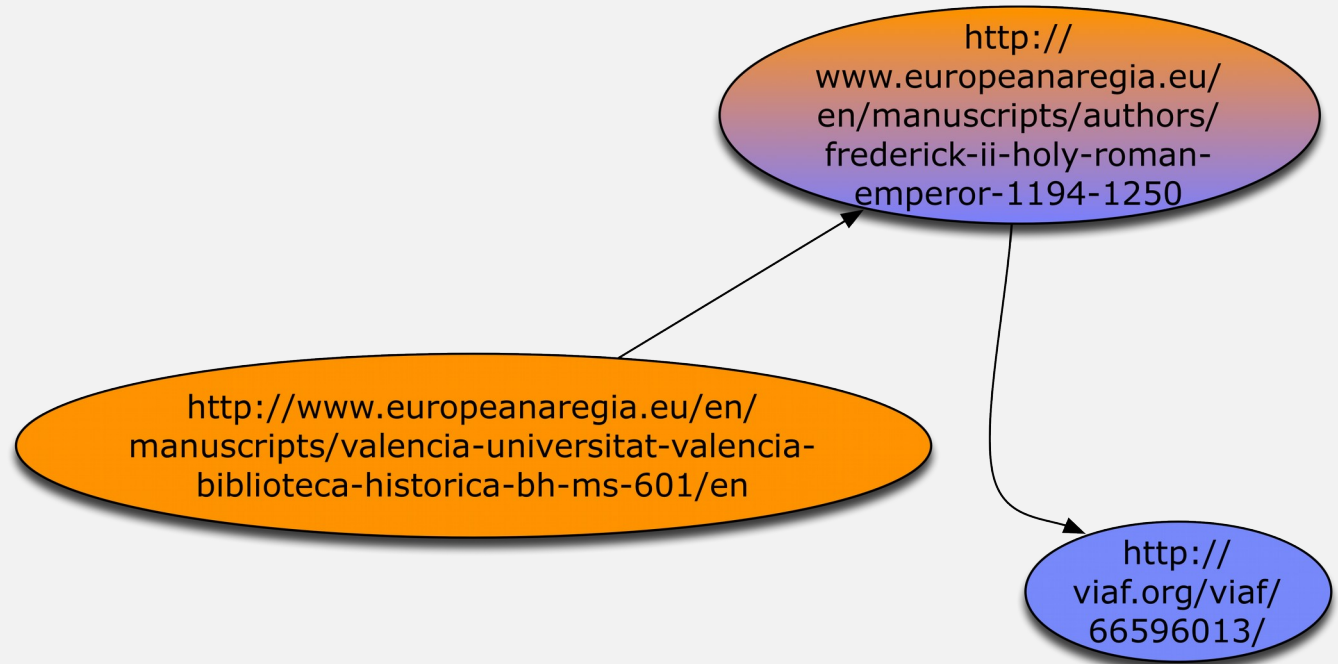
VIAF ID: 66596013 (Personal)

Permalink: <http://viaf.org/viaf/66596013>

Vorzugsbezeichnungen

- 100 0 _ [_ta Frederick _tb II, _tc Holy Roman Emperor, _td 1194-1250](#)
- 100 0 _ [_ta Frédéric _tb II, _tc empereur germanique, _td 1194-1250](#)
- 200 _ | [_ta Frédéric _td II _tc empereur germanique _tf 1194-1250](#)
- 100 0 _ [_ta فردريك _tb الثاني, _tc الإمبراطور الروماني المقدس, _td 1194-1250](#)
- 100 0 _ [_ta Frederick _tb II, _tc Holy Roman Emperor, _td 1194-1250](#)
- 100 0 _ [_ta Frederick _tb II, _tc Holy Roman Emperor, _td 1194-1250](#)
- 100 1 _ [_ta Frederick II, Holy Roman Emperor _tg Roman emperor, 1194-1250](#)

De Arte Venandi ... Subgraph 1



De Arte Venandi ... (4)

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96 % Di. 10:30 gradmans

Europeana Profes: x VIVO | connect - x Edoc - Dokument x COST/SISEL Trai x Europeana Regia x 25 Google Kalender x Protokoll Besprecl x crossref.org : : pu x

www.europeana-regia.eu/en/manuscripts/places/italy

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Italy

Getty Thesaurus of Geographic Names ID Number: 1000080
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De Arte Venandi ... (5)

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Europeana Pro | VIVO | connect | edoc - Dokument | COST/SISMEL | Europeana Reg | TGN Full Record | 26 Google Kalend | Protokoll Bespr | crossref.org

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Research

Research Home Tools Thesaurus of Geographic Names Full Record Display

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Full Record Display

New Search Previous Page Help

Vernacular Display | English Display

Click the icon to view the hierarchy.

ID: 1000080 Record Type: administrative

Italy (nation)

Coordinates:
Lat: 42 50 00 N degrees minutes Lat: 42.8333 decimal degrees
Long: 012 50 00 E degrees minutes Long: 12.8333 decimal degrees

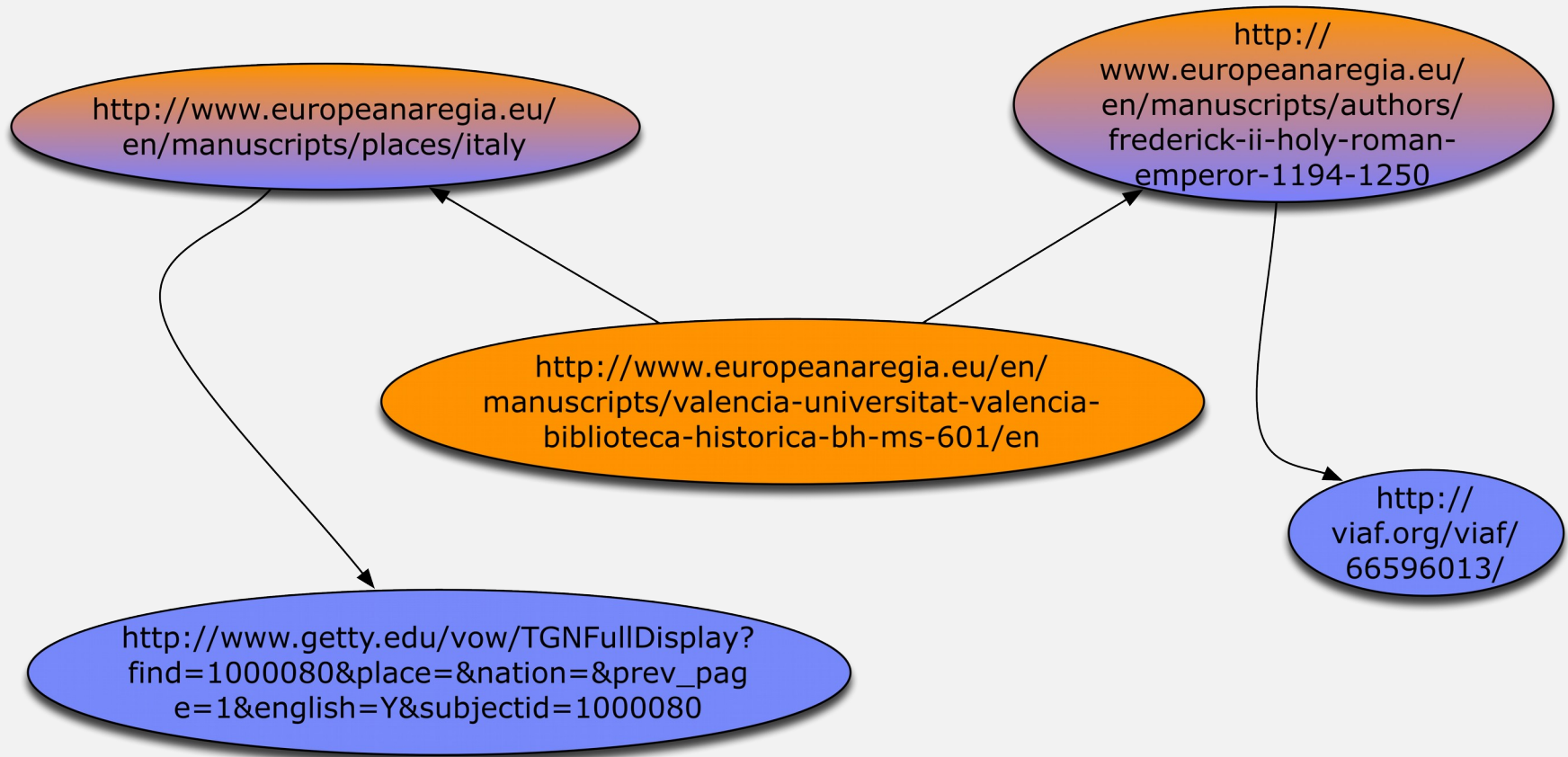
Note: Inhabited since 50,000 BCE; settled by Indo-Europeans 1850 BCE, Etruscans 1600 BCE, and Greeks 800 BCE; united by Romans 270 BCE; independent states rose after fall of Holy Roman Empire, notably Naples, Milan, Florence, Venice and papacy; reunited in the 19th century; official language is Italian, though significant minorities speak German, French, and Slovene.

Names:

Italia (preferred, C, V, Spanish-P, U, N) Roman name; is also modern Italian name
(Italian-P, U, N)
(Latin-P, U, N)

Repubblica italiana (C, V, O, Italian, U, N)
Repubblica Italiana (C, V, Italian, U, N)
Italy (C, O, English-P, U, N)

De Arte Venandi ... Subgraphs 1+2



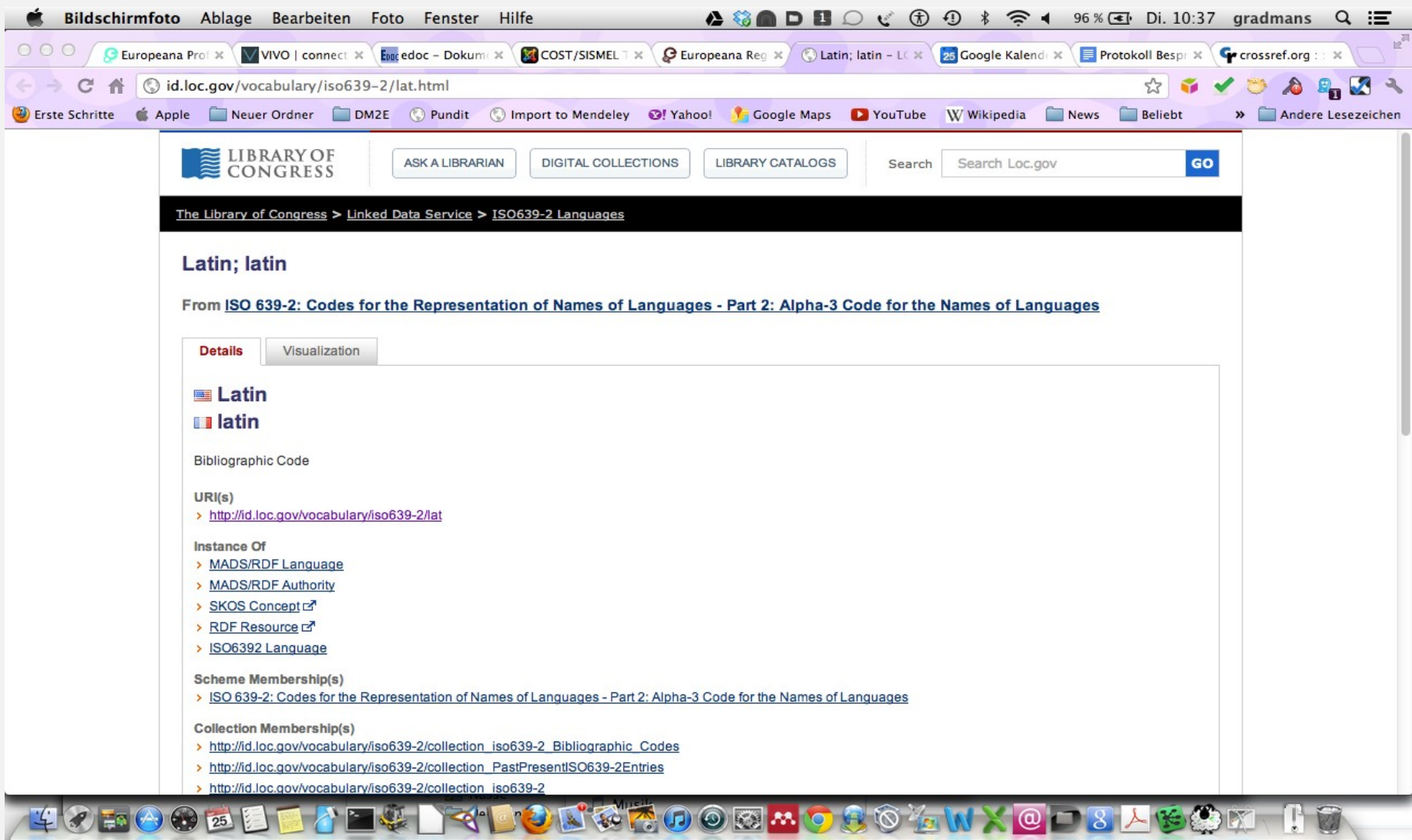
De Arte Venandi ... (6)

Frederick II, Holy Roman Emperor: De arte venandi cum avibus. Moamin. Gerardus Falconarius. Ghatrif. Grisofus medicus



Shelfmark	Valencia Universitat de València, Biblioteca Històrica BH Ms. 601
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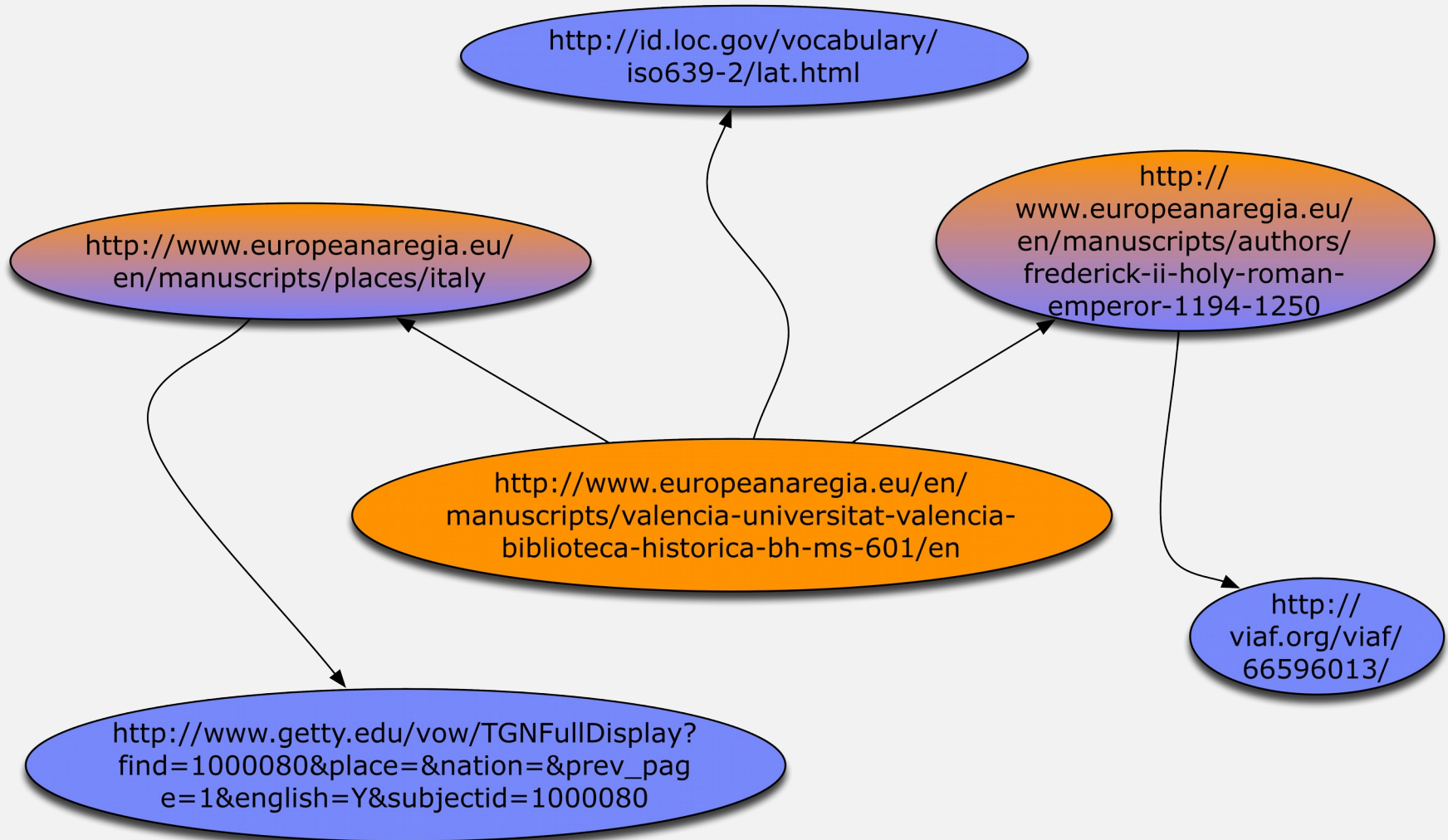
De Arte Venandi ... (6)



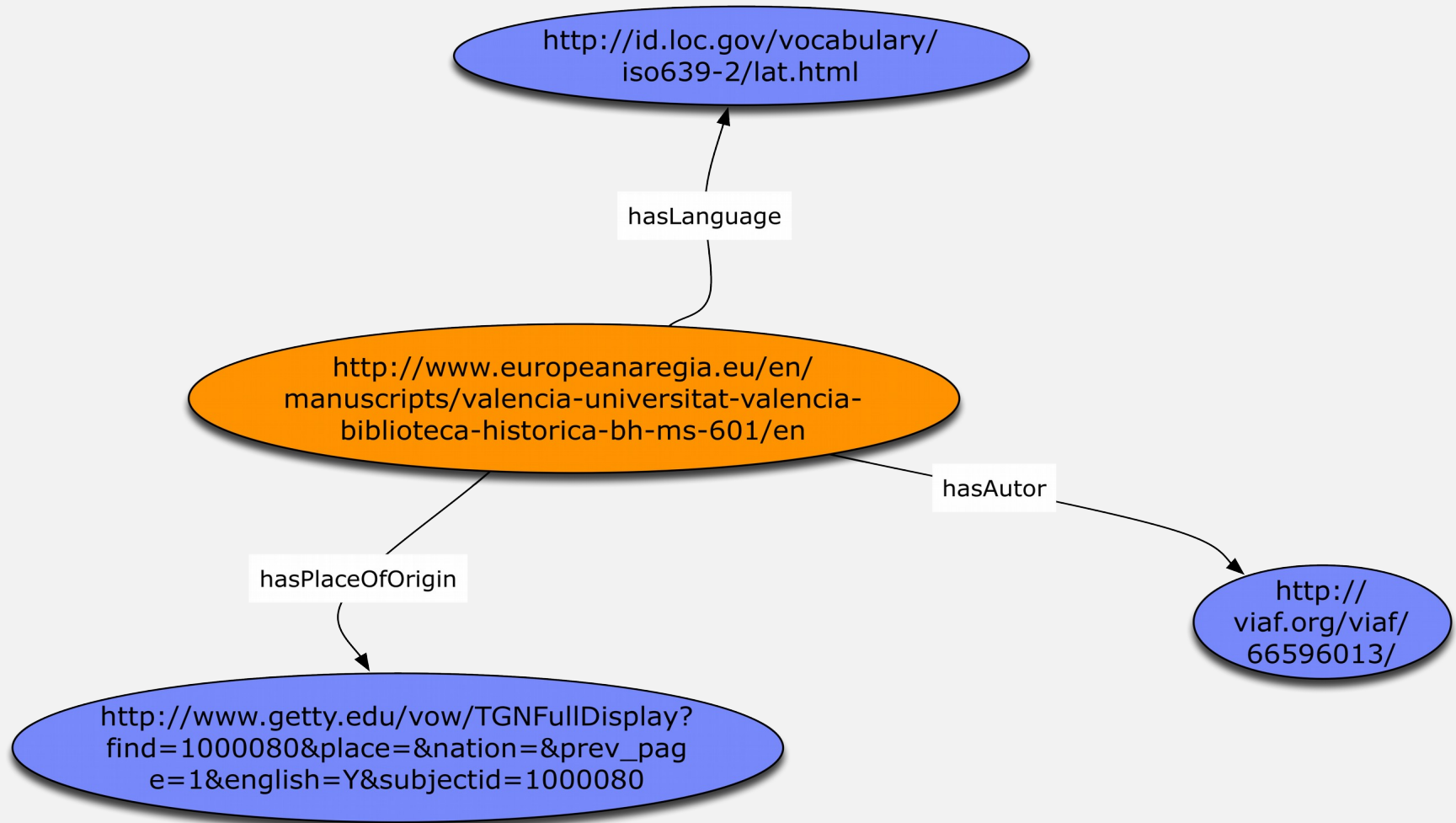
The screenshot shows a web browser window with the address bar displaying `id.loc.gov/vocabulary/iso639-2/lat.html`. The browser's address bar and tabs are visible at the top. The main content area is the Library of Congress website, showing the title "Latin; latin" and its source: "From ISO 639-2: Codes for the Representation of Names of Languages - Part 2: Alpha-3 Code for the Names of Languages". Below the title, there are tabs for "Details" and "Visualization". The "Details" tab is active, showing the following information:

- Latin** (with a small flag icon)
- latin** (with a small flag icon)
- Bibliographic Code**
- URI(s)**
 - > <http://id.loc.gov/vocabulary/iso639-2/lat>
- Instance Of**
 - > [MADS/RDF Language](#)
 - > [MADS/RDF Authority](#)
 - > [SKOS Concept](#)
 - > [RDF Resource](#)
 - > [ISO6392 Language](#)
- Scheme Membership(s)**
 - > [ISO 639-2: Codes for the Representation of Names of Languages - Part 2: Alpha-3 Code for the Names of Languages](#)
- Collection Membership(s)**
 - > http://id.loc.gov/vocabulary/iso639-2/collection_iso639-2_Bibliographic_Codes
 - > http://id.loc.gov/vocabulary/iso639-2/collection_PastPresentISO639-2Entries
 - > http://id.loc.gov/vocabulary/iso639-2/collection_iso639-2

De Arte Venandi ... (6)



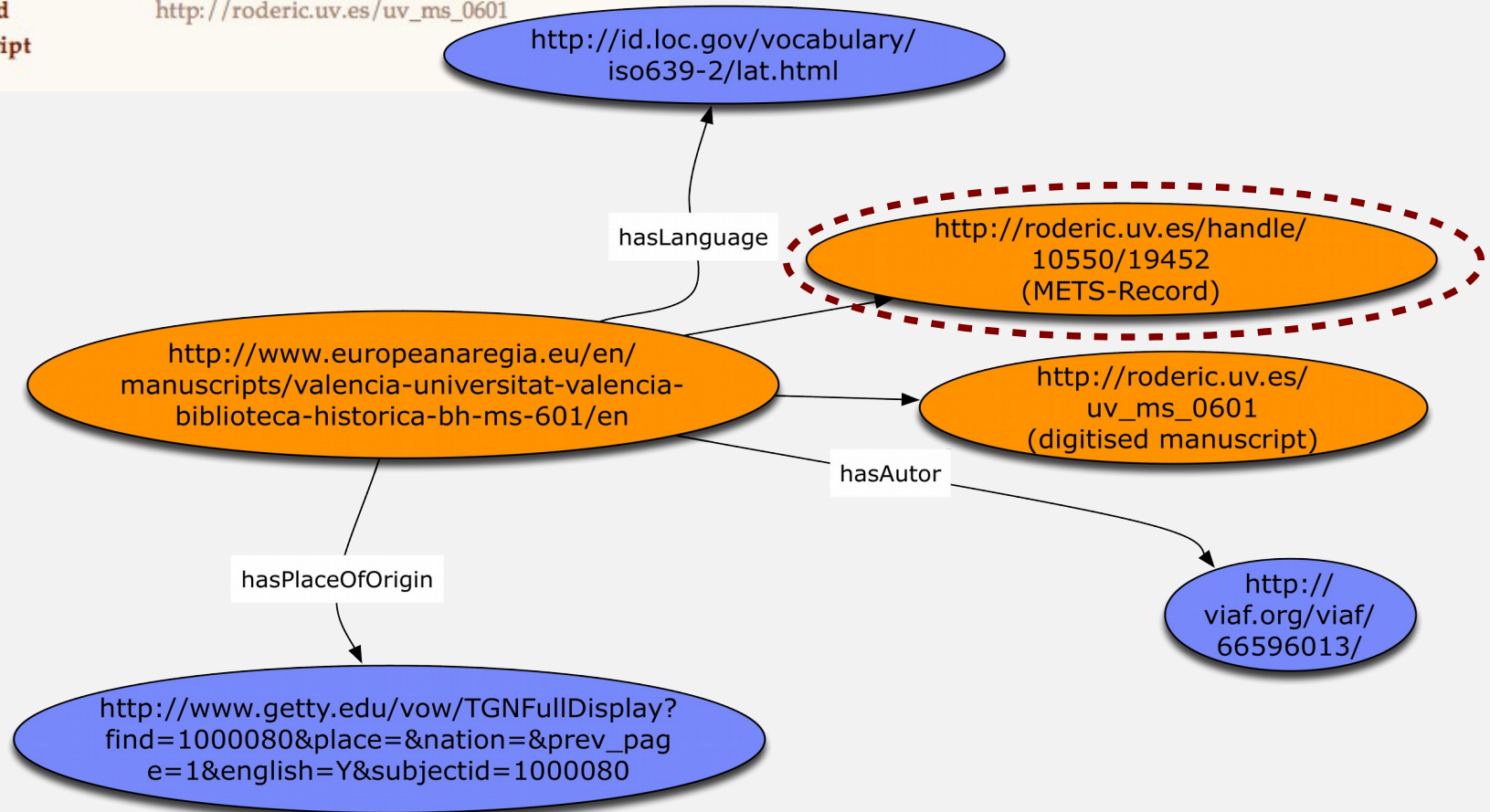
De Arte Venandi ... done 'right'



De Arte Venandi ... there's more!

Full Manuscript Record
http://trobes.uv.es/record=b1948745
http://roderic.uv.es/handle/10550/19452

Digitised Manuscript
http://roderic.uv.es/uv_ms_0601



De Arte Venandi ...

there

<http://id.loc.gov/vocabulary/iso639-2/lat.html>

xmlui.dri2xhtml.METS-1.0.item-somn2. f. 5r-56r: "[rúbr.] Incipit[ue] eius tractat[us] [et] primo de avibus g[e]n[er]aliter aviu[m] in aquaticis terrestribus [et] mediis. Item in rapacibus [et] non rapacibus. [text] In hoc autem primo tractatu huius operis dicemus generaliter de avibus ...; [f. 55r] [et] que dicuntur anates campestres [et] plures alie ... [f. 56r] [rúbr.] Expicitus est primus tractatus"

ore:Aggregation
De Arte Venandi ...

3. f. 56r-115r: "[rúbr.] Incipit[ur] de avibus eius particulis. ... venatio... Ex posterior est q[uam] paulatina
4. f. 115r-145r: "[rúbr.] Incipit[ur] [ter]cius. Dictum est de mansuefactione falconu[m] cum capello. Seq[ui]tur de instrumentis p[er] quos redeat ad homines. [text] Intentio n[ost]ra principio diximus est docere venationes ... [et] ledere etiam ipsos in p[er]sona. [rúbr.] Explicit liber quartus [tat]at[ur] tercius"
5. f. 145r: "[rúbr.] Incipit[ur] de girofalcone ad gruem, que est quidam in venatione q[uam] eo. [text] De girofalcone ad grues ... qua[m] habent modi falcomu[m] [rúbr.] Explicit liber quartus de girofalcis ad grues"
6. f. 174v-205v: "[rúbr.] Incipit liber quintus. De falcone sacro ad ayrones. [text] Determinatum est in precedentib[us] sufficienter de girofalcis ... Et grus volans percutit falconem ayro autem Dictum est de girofalcone ad grues. Explic

http://roderic.uv.es/uv_ms_0601
(digitised manuscript)

http://roderic.uv.es/handle/uv_ms_0601/1-f-3r-5r.html
(METS-Record)

edm:isNextInSequence

http://roderic.uv.es/handle/uv_ms_0601/2-f-5r-56r.html
(METS-Record)

edm:isNextInSequence

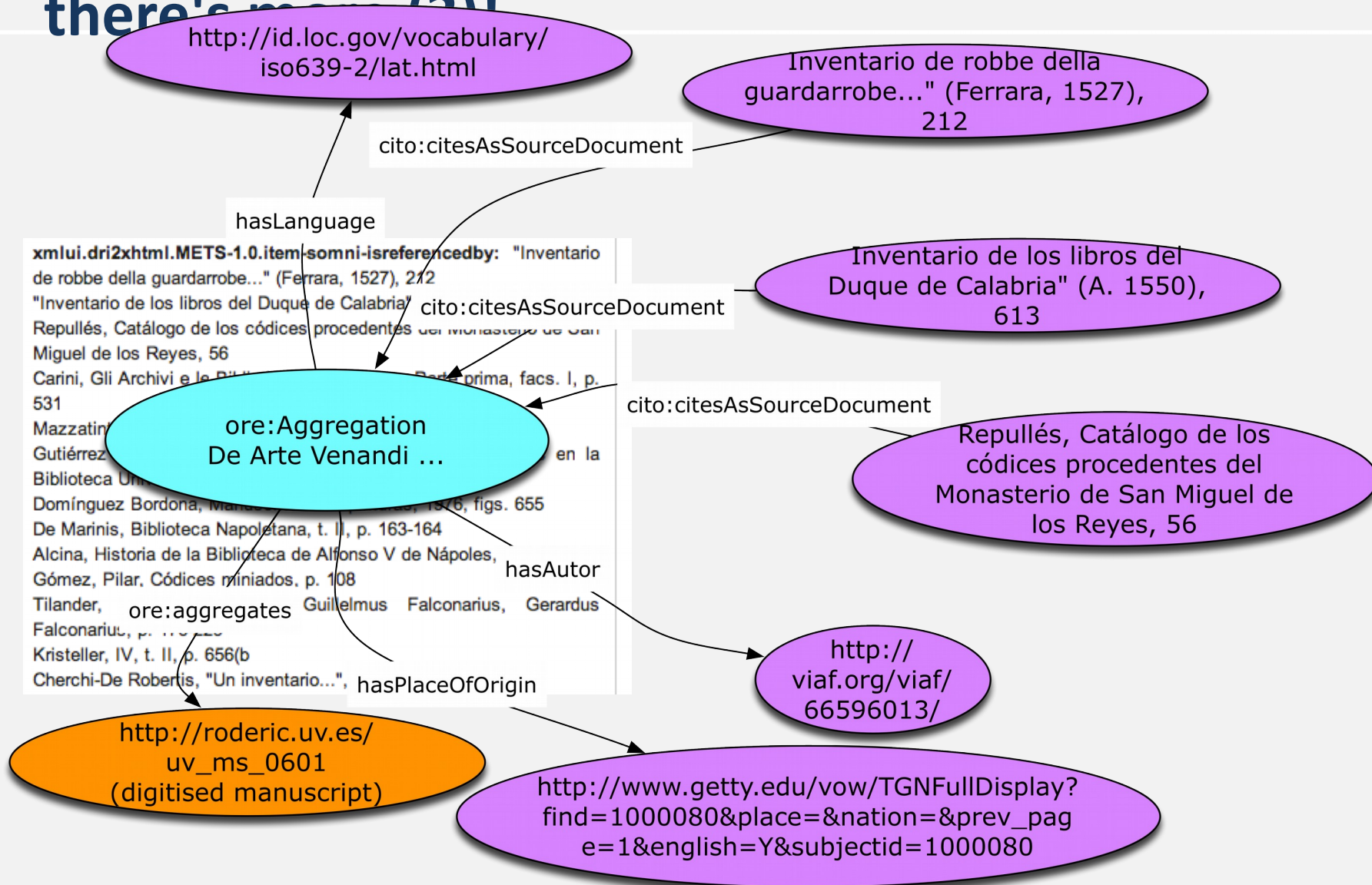
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(METS-Record)

<http://viaf.org/viaf/66596013/>

http://www.getty.edu/vow/TGNFullDisplay?find=1000080&place=&nation=&prev_page=1&english=Y&subjectid=1000080

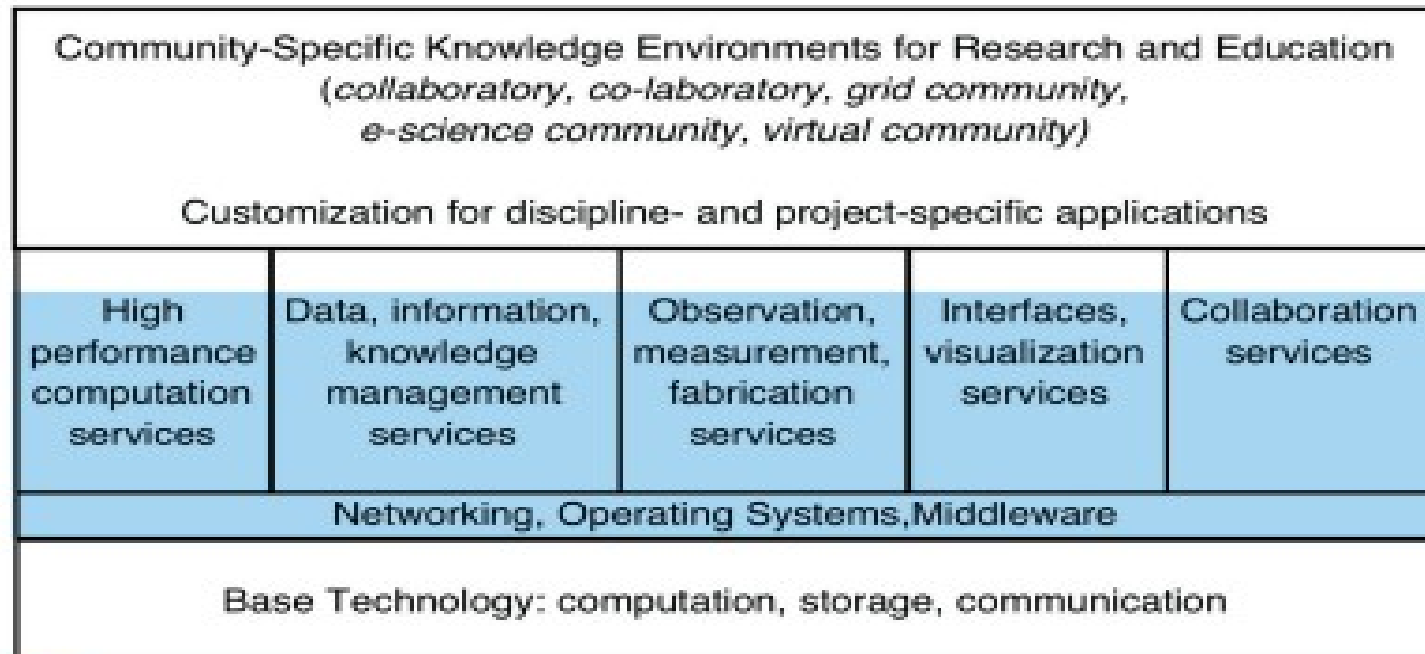
De Arte Venandi ...

there's more (2)



Beyond Infrastructure: The Scholarly Domain Model

Cyberinfrastructure: Atkins Report (2003)



 = cyberinfrastructure: hardware, software, services, personnel, organizations

- “Mother of all infrastructure layer cakes” impacted
 - “Our Cultural Commonwealth”, e-Science (UK), TextGrid, DARIAH
 - With Isidore, Europeana and others being more content oriented and LoD based

Why Beyond Infrastructure?

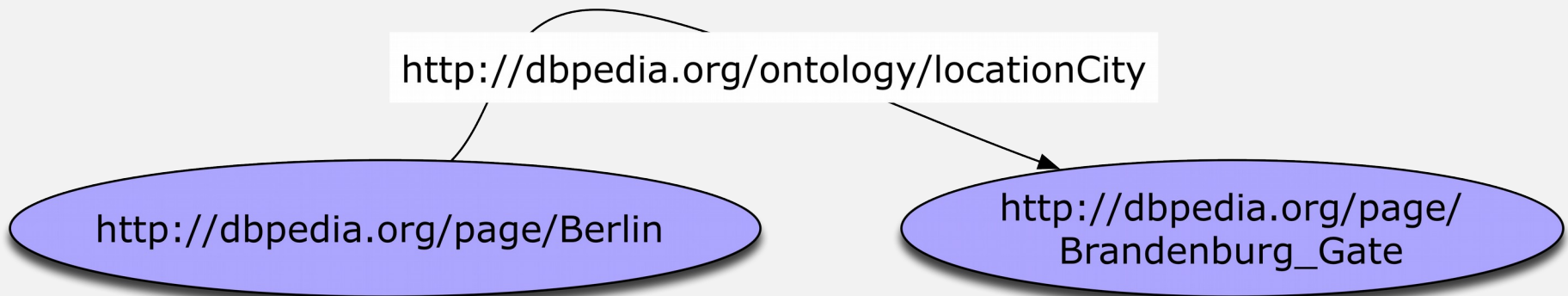
- We want to move **beyond emulation mode** ...
- ... beyond 'pages' and 'links'
- “**Research infrastructure is not research** just as roads are not economic activity. We tend to forget when confronted by large infrastructure projects that they are not an end in themselves. [...] Infrastructure projects can become ends in themselves by developing into an industry that promotes continued investment. To sustain infrastructure there develops a class of people whose jobs are tied to infrastructure investment.” Rockwell (2010)
- → how can we better **understand and model primary research activities** in order to re-implement them more thoroughly?
= Are there generics

Scholarly Primitives and Dynamics

- Unsworth (2000)
 - *discovering, annotating, comparing, referring, sampling, illustrating, representing*
 - as the basis for tool-building enterprises for the Digital Humanities
- Palmer et al. (2009)(“scholarly information activities”)
 - *searching, collecting, reading, writing, collaborating*
- ... Blanke & Hedges (2011), Bamboo (2010), McCarty et. al. (2002) Anderson et al. (2010) ...
- Bernardou et al. (2010)
 - CRM activity and event based process model connecting research activities with information objects and propositions, i.e. including argumentation structures

The Glue: RDF / RDFS

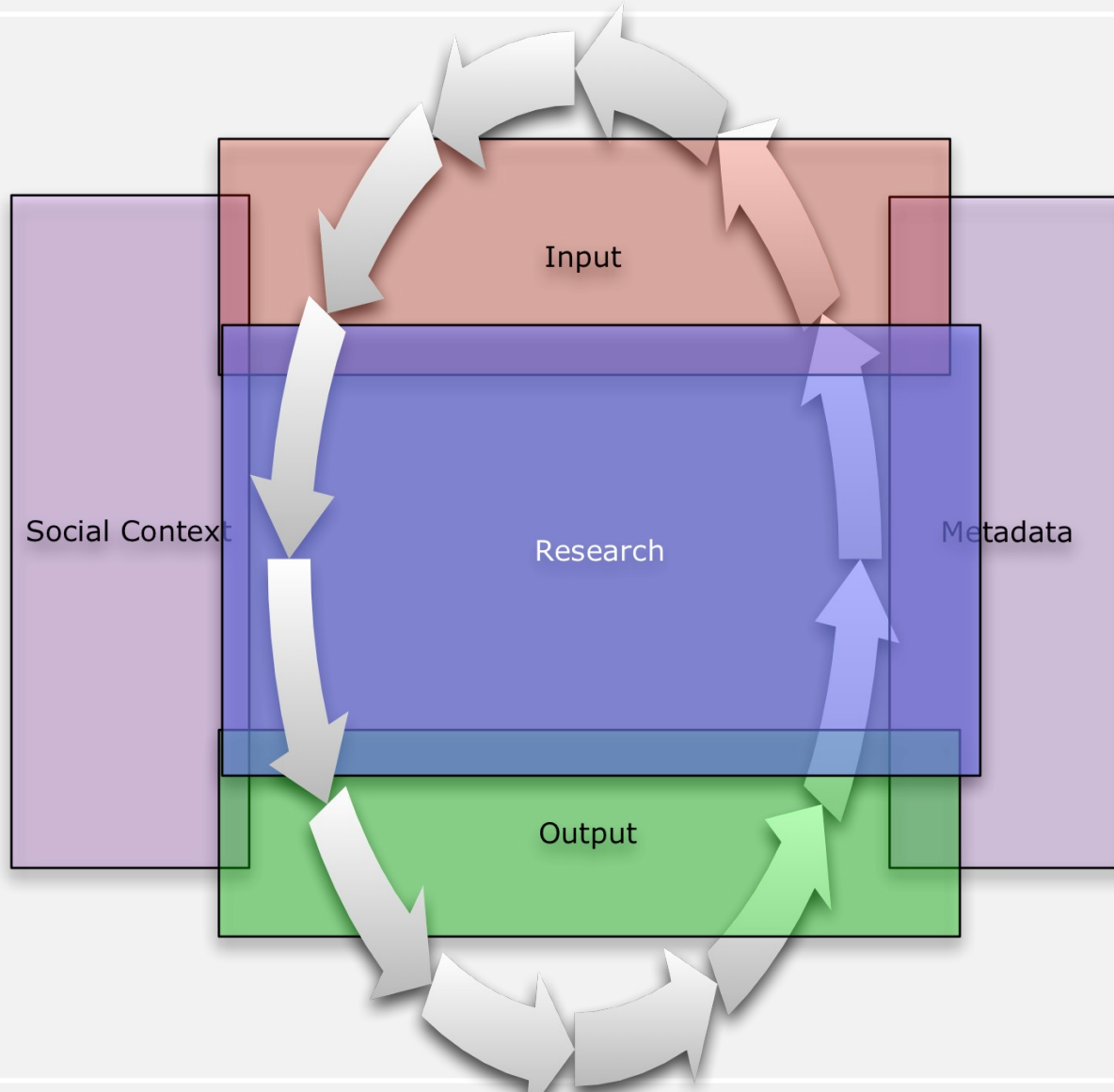
- Typed statements on web resources (triples) and how they relate to each other, e. g.



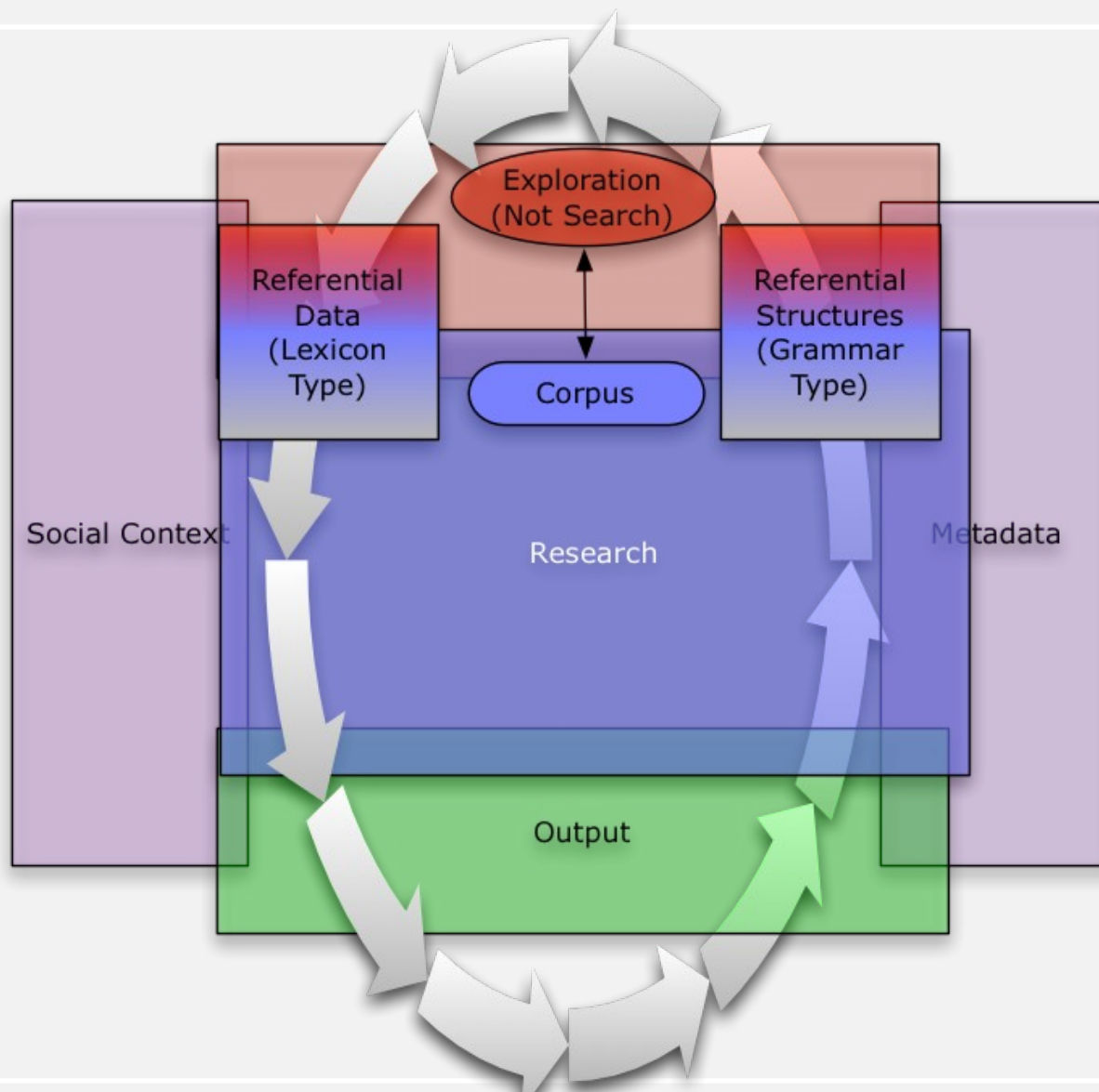
- + RDF Schema (RDFS) language with concepts, classes and subclasses and superclasses and -properties including the concept of inheritance
- → simple, deterministic logical operations on triple aggregations (“reasoning”)

"Brandenburger Tor"

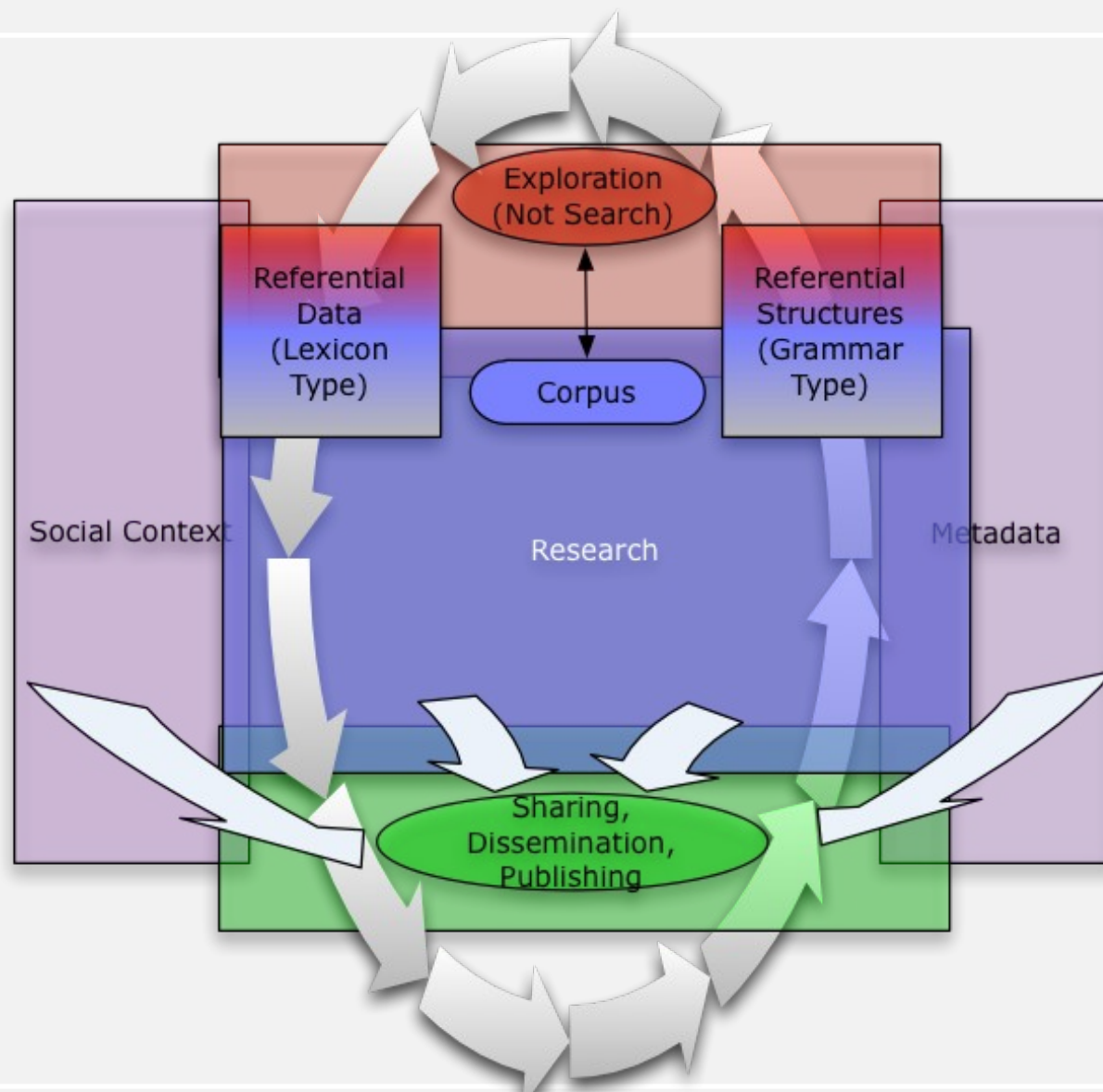
The Scholarly Domain from 10.000 feet above



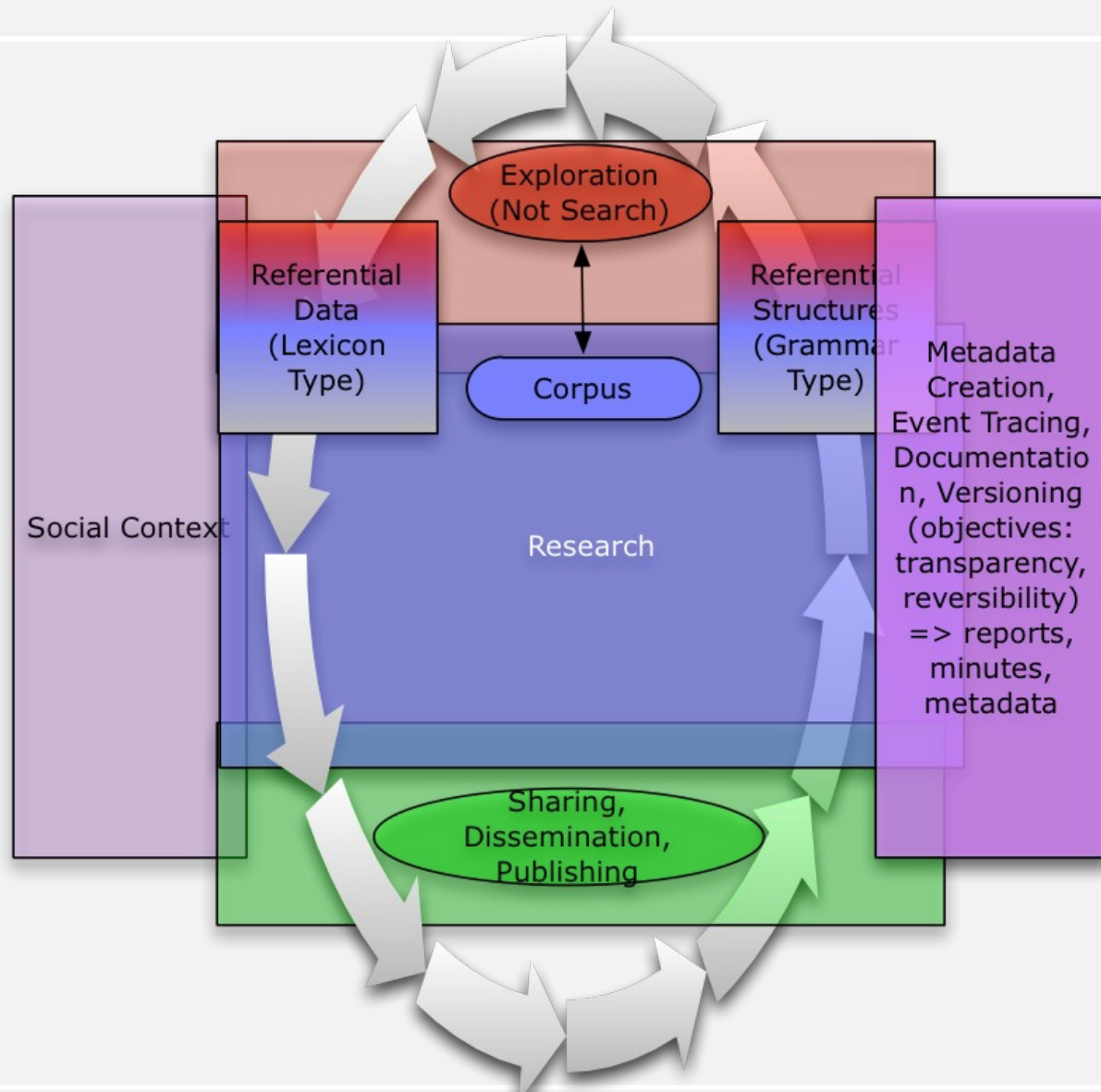
Input Area Details



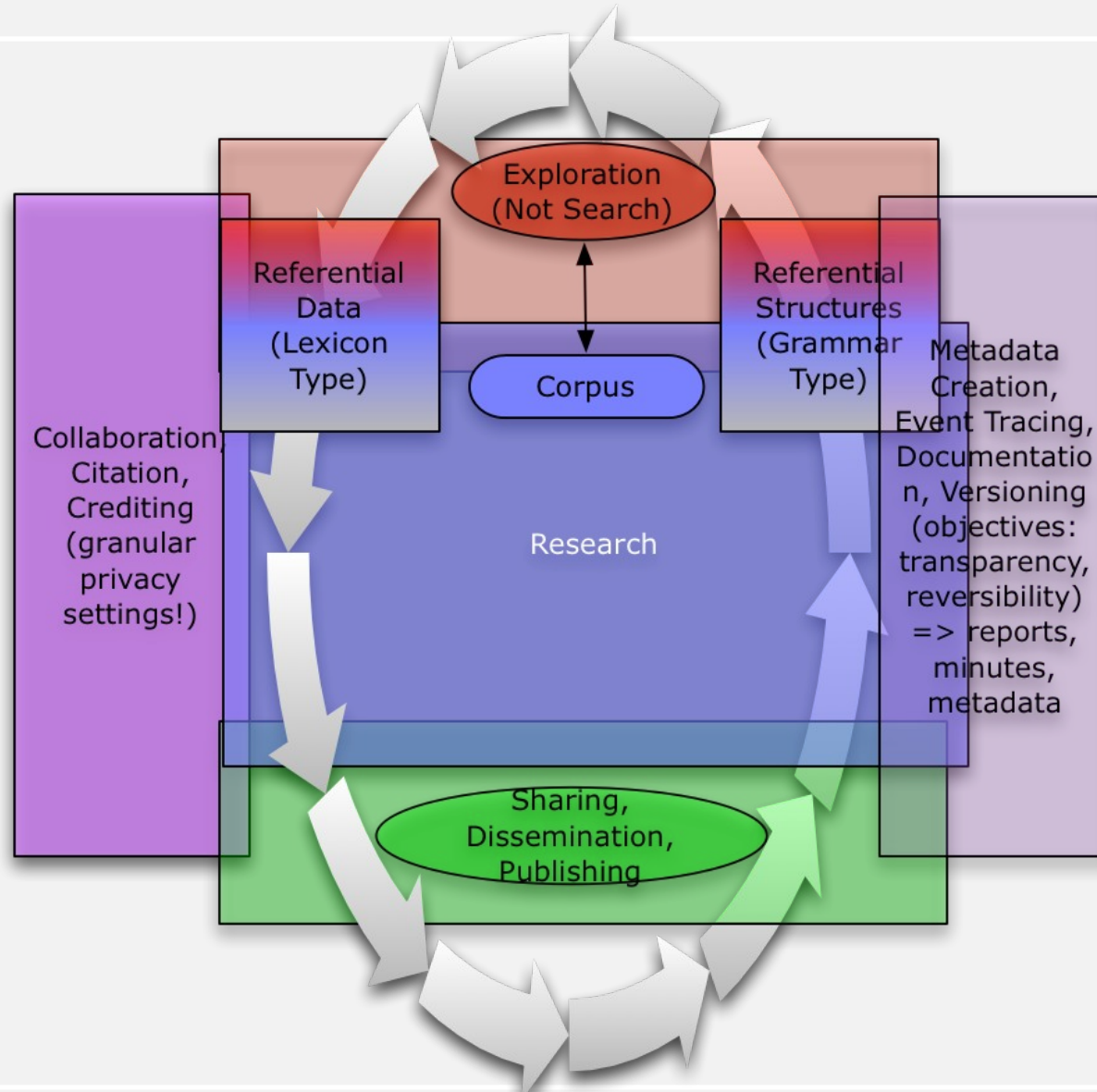
+ Output



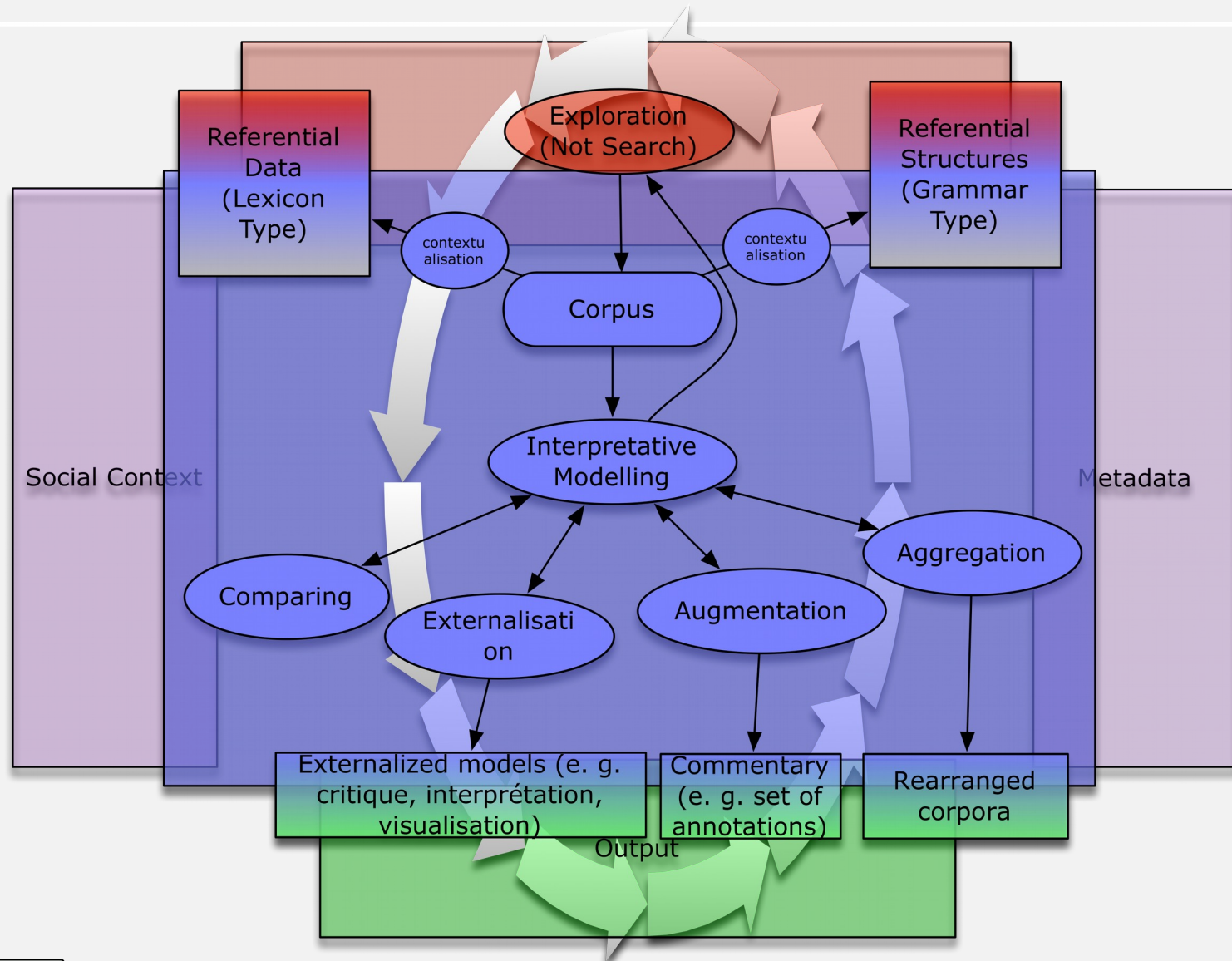
+ Metadata



+ Social Context



Zoom on Research



What Next?

Roadmap

- a) Identify the intended functional extension of the 1st Pundit & Korbo versions (→ visualisation!)
- b) Stabilise scholarly domain model
- c) Identify additional specialisations of primitives
- d) Formalise, ontologically model such specialisations
- e) Populate the platform with Wittgenstein's Brown Book and related material
- f) Have ~10 scholars work in that environment
- g) Analyse and model the resulting scholarly semantic graph
- h) Iterate at least once from d) (or even c)!)
 - i) Report at DH 2013

Wittgenstein Source

Wittgenstein SOURCE

Introduction Software

EXPLORE

DOCUMENTATION

About WittgensteinSource

SEARCH

ARCHIVE

Legend D N

Ms-114: X, Philosophische Grammatik m F D N

Ms-115: XI, Philosophische Bemerkungen m F D N

Ms-139a: Lecture on Ethics m F D N

Ms-140: Grosses Format m F D N

Ms-141 m F D N

Ms-148: C4 m F D N

Ms-149: C5 m F D N

Ms-150: C6 m F D N

Ms-152: C8 m F D N

Ms-153a: Anmerkungen m F D N

Ms-153b m F D N

Ms-154 m F D N

Ms-155 m F D N

Ms-156a m F D N

Ts-201a1: Notes on Logic m F D N

Ts-201a2: Notes on Logic m F D N

Ts-207: Lecture on Ethics m F D N

Ts-212 m F D N

Ts-213: Big Typescript m F D N

Ts-310: Brown Book m F D N

Ts-310 Facsimile

Ts-310,1 facsimile

WAB DISCOVERY (2008): Wittgenstein TS 310 G Trinity College Cambridge, Oxford University Press, University of Bergen

1.

Augustine, in describing his learning of language, says that he was taught to speak by learning the names of things. It is clear that whoever says this has in mind the way in which a child learns such words as "man", "tiger", "table", etc. He does not primarily think of such words as "today", "not", "but", "perhaps".

Suppose a man described a game of chess, without mentioning the existence and operations of the pieces. His description of the game as a natural phenomenon will be incomplete. On the other hand we may say that he has completely described a singular game. In this sense we can say that Augustine's description of learning the language was correct for a singular language then used. Imagine this language:-

1). The function is the communication between a builder A & his man B. B has to reach A building stones. There are cubes, bricks, slabs, beams, columns. The language consists of the words "cube", "brick", "slab", "column". A calls out one of these words, upon which B brings a stone of a certain shape. Let us imagine a society in which this is the only system of language. The child learns this language from the group-up by being trained to its use. I am using the word "trained" in a very strictly analogous to that in which we talk of an animal being trained to do certain things. It is done by means of example, reward, punishment, and such like. Part of this training is that we point to a building stone, direct the attention of the child towards it, pronounce a word. I will call this procedure communicative teaching of words. In the actual

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Created by: Christian Morbidoni

On: 2013-02-26, 18:03:51

ID: ce33170b

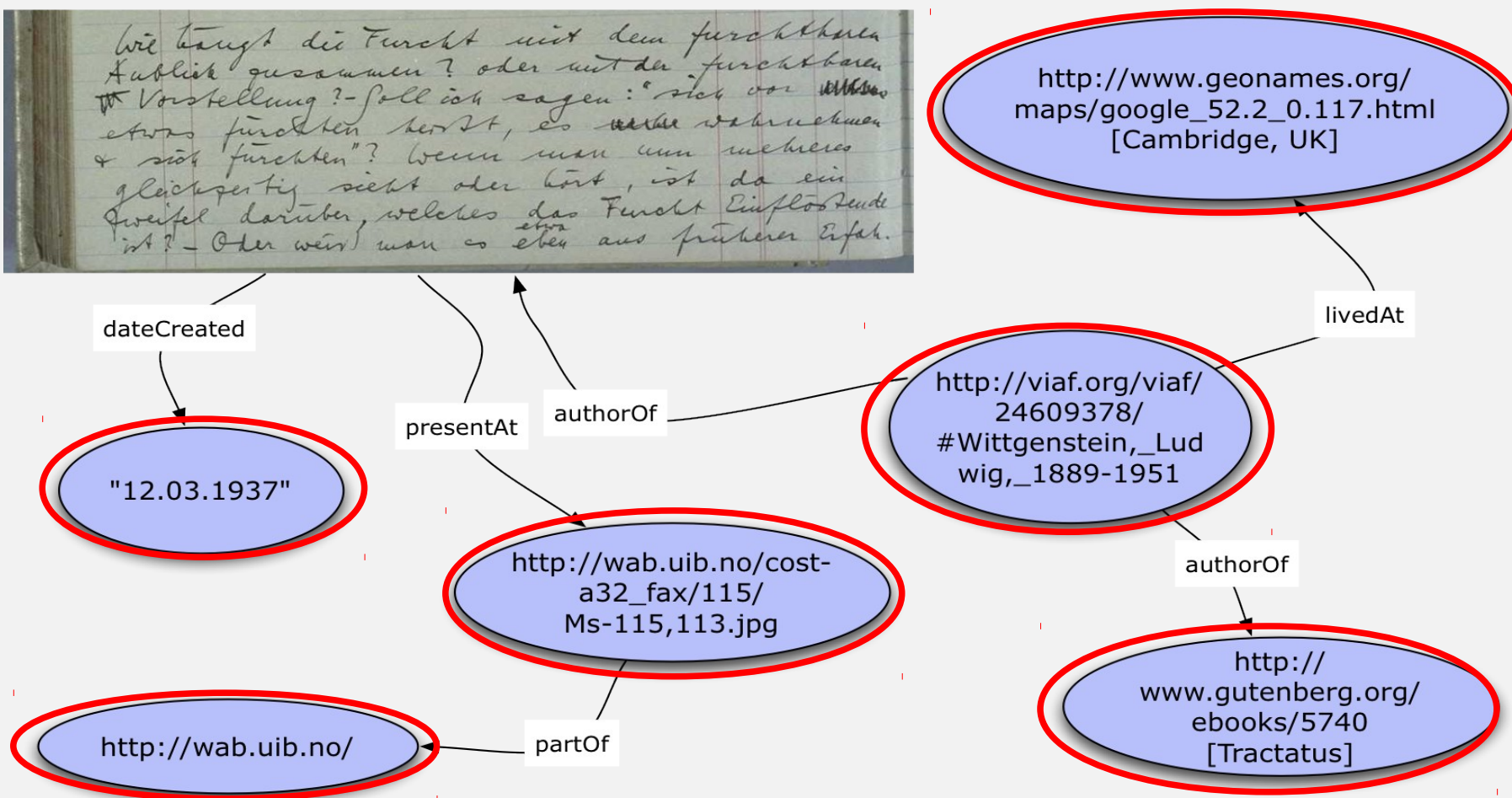
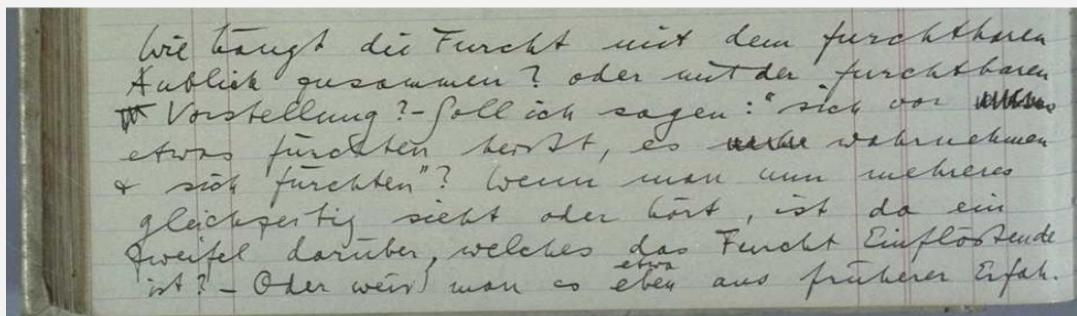
Before I begin to speak about my subject proper I...
refersTo
Freud Sigmund

Types: [Person](#)

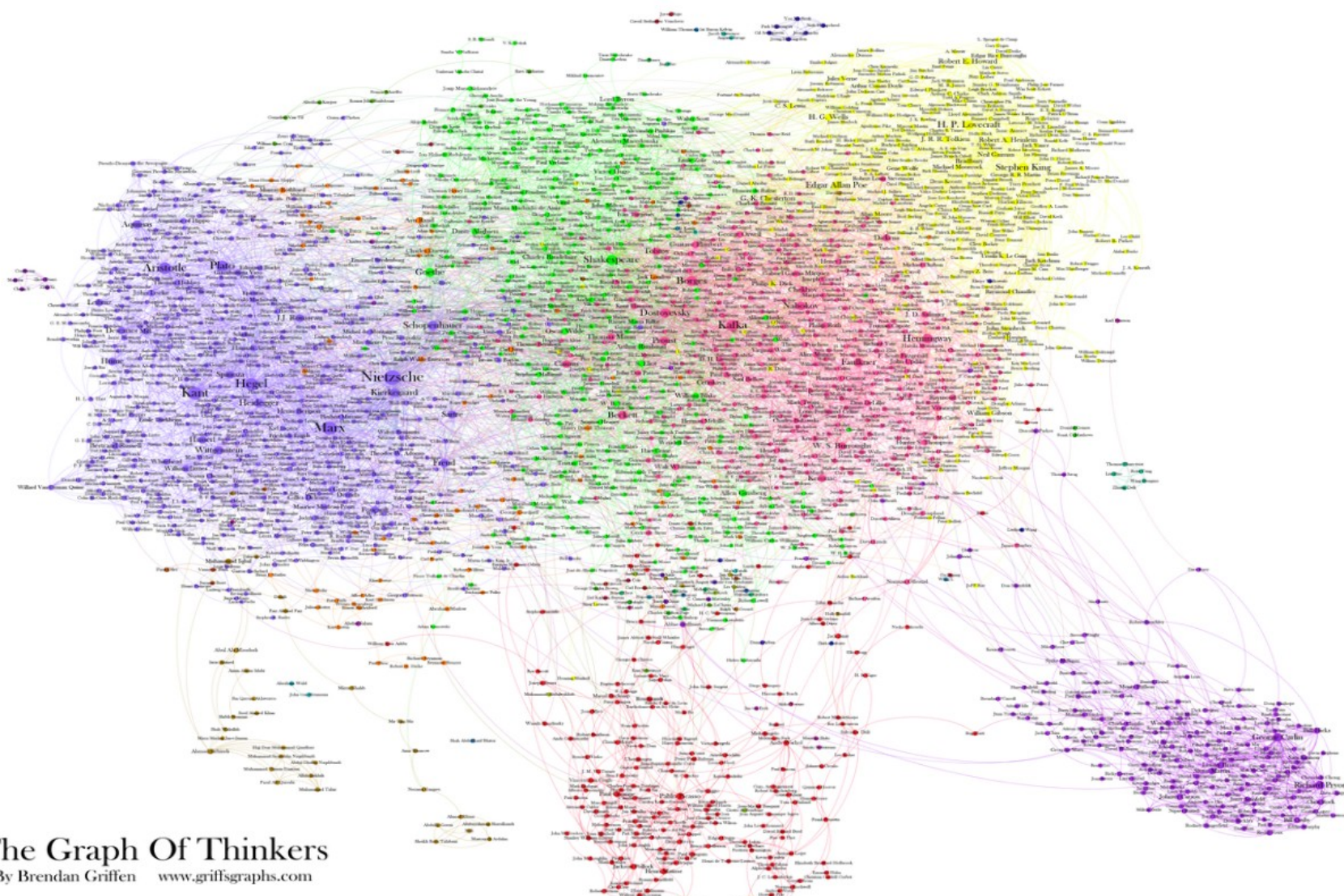
Description : Missing description

More info

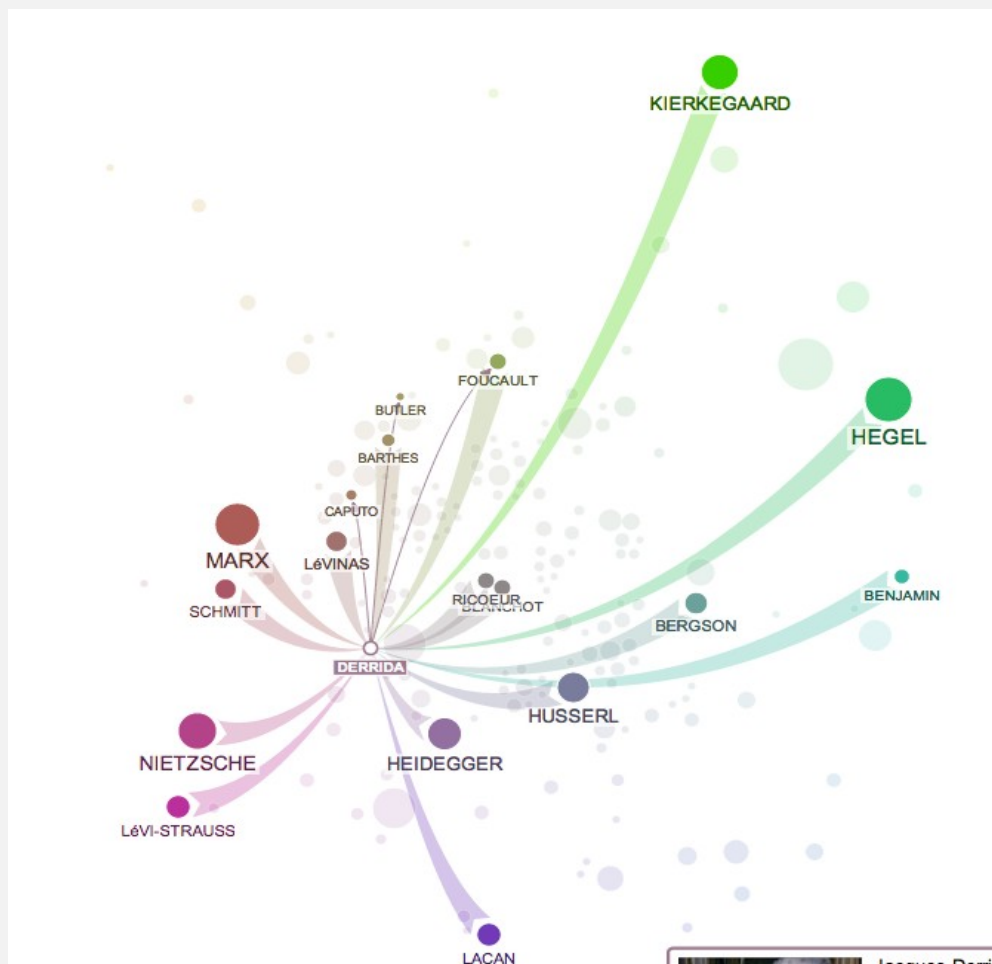
Contextualising Wittgenstein



Graph of Thinkers



Graph of Philosophers



And a Proposal to End With

A Proposal for Horizon 2020

- Propose building of an RDF-based virtual research environment adding a shared semantic layer on top of CERIF
- Build co-operation with
 - ResearchSpace (British Museum, Yale University, Ontotext, FORTH)
 - Vérifiction (Mondeca, Paris X/Tactic, MSH Paris Nord, Université de Montréal)
 - LERU
- Address 'Creativity'

Address 'Creativity'

- Shared effort in scholarly discourse modeling
 - Building/refining generic and domain specific ontologies
 - Go further into modeling complex argumentation building on Doerr & al. (2011)
- Build community-based scholarly semantic graphs
 - As an instrument of research
 - As an object of research (how to enable originality?)
- One of these graphs could be a medieaval one ...

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Thank you for your patience and attention